

## ABSTRACT

2 An open loop controller for use with a sampled grating distributed Bragg reflector  
3 (SGDBR) laser is presented. The controller provides separate inputs to the laser  
4 including a front mirror current controlling a front mirror and a back mirror current  
5 controlling a back mirror to control, as well as a phase current and a gain current. The open  
6 loop controller in accordance with the present invention further includes a lookup table  
7 generated to reflect the unique specifications of each SGDBR laser is controlled.